

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference L1480 PCT	FOR FURTHER ACTION		See Form PCT/PEA/416
International application No. PCT/US2004/018423	International filing date (day/month/year) 09.06.2004	Priority date (day/month/year) 13.06.2003	
International Patent Classification (IPC) or national classification and IPC C09J7/02			
Applicant 3M INNOVATIVE PROPERTIES COMPANY			
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 5 sheets, including this cover sheet. 3. This report is also accompanied by ANNEXES, comprising: a. <input type="checkbox"/> sent to the applicant and to the International Bureau a total of sheets, as follows: <input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			
4. This report contains indications relating to the following items: <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Box No. I Basis of the opinion <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application </div>			
Date of submission of the demand 13.04.2005		Date of completion of this report 29.09.2005	
Name and mailing address of the International preliminary examining authority: <div style="display: flex; align-items: center;"> <div> European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016 </div> </div>		Authorized Officer Schlicke, B Telephone No. +31 70 340-1013	



**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/US2004/018423

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

Description, Pages

1-23 as originally filed

Claims, Numbers

1-22 as originally filed

Drawings, Sheets

1/2-2/2 as originally filed

- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-7,13,14,16,18,20-22
	No: Claims	8-12,15,17,19
Inventive step (IS)	Yes: Claims	1-7,13,14,16,18,20-22
	No: Claims	8-12,15,17,19
Industrial applicability (IA)	Yes: Claims	1-22
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V.

- 1 The following documents are referred to in this communication:

D1 : US5672402 A (KRECKEL KARL W ET AL) 30 September 1997

- 2 Document D1 discloses (comparative example B) a stretch removable adhesive tape comprising a polyester film substrate having an elastic modulus of about 31×10^8 Pa and a breaking elongation of 132% at room temperature.

D1 remains silent with regard to elastic moduli and breaking elongations at higher temperatures. However, it appears very likely that at higher temperatures, and especially within the fairly broad range of 25°C to 100°C, the breaking elongation of the films of D1 would increase to more than 150% and the elastic modulus would decrease to less than 5.0×10^8 Pa.

In absence of any evidence that these films do not show such a likely behaviour, it has to be assumed, that the subject-matter of present claim 8 lacks novelty in view of D1 (Article 33(2) PCT).

- 3 Dependent claims 9-12, 15, 17, 19 do not contain any features which, in combination with the features of claim 8 to which they refer, meet the requirements of the PCT in respect of novelty (Article 33(2)).
- 4 The combination of an adhesive tape substrate showing the elastic modulus behaviour as suggested in independent claims 1 and 7 and a temperature indicating material is neither known from, nor rendered obvious by, the available prior art.

The combination of an adhesive tape substrate showing the elastic modulus behaviour as suggested in independent claims 20 and 21 and a method of thermally removing an adhesive tape is neither known from, nor rendered obvious by, the available prior art.

The subject-matter of claims 1,7,20 and 21 therefore appears to comply with the

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(SEPARATE SHEET)**

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requirements of Articles 33(2) and (3) PCT.

The subject-matter of these claims therefore appears to comply with the requirements of Articles 33(2) and (3) PCT.